BASALITE®
Concrete Products

Basalite Thinset Mortar

Description:

Basalite Thinset Mortar produced by Basalite Concrete Products in DuPont, WA is a polymer modified thinset bonding mortar for ceramic tile, natural stone, pavers, and masonry veneers. Basalite Thinset Mortar meets the requirements of ANSI 118.4 and 118.11. It is highly versatile and may be used on residential, commercial, or institutional projects.

Basalite Thinset Mortar is composed of ASTM C 595 Type 1L Portland Limestone Cement, A fine Graded ASTM C 144 Sand, and a blend of proprietary polymer admixtures design to enhance the bond strength, increase flexibility, decrease shrinkage, and eliminate sagging characteristics.

Uses:

Basalite Thinset Mortar is ideal for floor or wall installation for interior or exterior applications of the following materials.

- Ceramic Tile
- Quarry Tile
- Thin Brick
- Natural Stone
- Precast Concrete
- Manufactured Stone
- Concrete Pavers
- Similar Masonry Veneers

Limitations:

Not recommended for green marble or water sensitive natural stone, over particle board, hardwood floors, luan, Masonite floors or any dimensionally unstable substrates. Substrate must be sound and substrate deflection under live, dead and impact loads, including concentrated loads must not exceed L/360 for thin bed installations or L/480 for thick bed installations, where L= span length. void application in high heat, wind, cold. Follow ANSI installation requirements.

Suitable Substrates:

- Prepared Concrete
- Concrete Block
- Cement Plaster / Mortar Beds
- Gypsum Boards (Dry, Interior)
- Exterior Grade Plywood (Interior application only)
- Portland Cement Backer
- Existing Ceramic Tile

Technical Data: The data listed below is a representation of typical values achieved under controlled laboratory conditions when tested according to ANSI 118.4 and 118.11.

	7 Day	28 Day	84 Day
	Actual / Spec	Actual / Spec	Actual / Spec
Shear Strength: Plywood *(ANSI 118.11)*	155 / >100	157 / > 150	165 / > 150
Shear Strength: Air Dried *(ANSI 118.4)*	365 / > 300	585 / > 300	597 / > 300
Shear Strength: *Water Immersion* *(ANSI 118.4)*	395 / > 200	245 / > 100 * 48 hr. test	N/A
Compressive Strength *(ANSI 118.4)*	4150 / N/A	5090 / > 2500	

Open Time: 55 Min / > 50
Adjustability: 45 Min / > 30
Initial Set: 405 Min / >360
Final Set: 610 Min / > 540, < 900

Coverage: Per 50 Lb. Bag
- .25" x .25" x .25 " Approximately 80 - 95 Sq. Ft.
- .25" x .38" x .25 " Approximately 70 - 90 Sq. Ft.
- .5" x .5" x .5 " Approximately 35 - 50 Sq. Ft.

LEED Information: Provided the jobsite is within 500 miles of DuPont Washington, a portion (100% Manufactured, 58% Harvested and Extracted) of Basalite Thinset Mortar will also qualify for LEED Credit 5.1, and 5.2 for regional materials.

Packaging: Basalite Thinset Mortar is pre-package in 50 lb. bags with 64 bags per pallet

Safety Precautions: Basalite Thinset Mortar contains Portland Cement and other carefully selected additives. Normal safety wear used to handle conventional cement-based products such as rubber gloves, dust mask and safety glasses should be worn. Material Safety Data Sheets are available upon request.

Installation:

Surface Preparation: Installation shall be in accordance with International Building Code, ANSI, and local building codes. Movement joints shall be brought through mortar and veneer to the surface. All surfaces must be sound, clean, and free from any dirt, oil, paint, bond breakers, efflorescence or any contaminants which may hinder bond. Follow ANSI A108.5 and TCNA (Tile Council of North America) installation guidelines.

Mixing: Mix by hand or use a mixer with less than 300 RPM to avoid too much entrapped air. Add a 50 lb. bag to approximately 1 ½ gallons of potable water while mixing. Mix the material thoroughly and let it set for 10 min. Do not add more water.

Application: Apply mortar to the substrate with the flat side of a notched trowel. Firmly press mortar into the substrate. Apply additional mortar using the notched side of the trowel. Spread only as much mortar as can be covered in 10-15 minutes Use the correct size notched trowel to make sure veneers are fully embedded (100% coverage). Place tile or veneers into the wet tacky mortar and beat into place with a rubber mallet. Do not apply to skimmed over mortar. Back butter large veneers (8” x 8”). Back buttering is recommended for all tile, brick or veneer to achieve a wet-on-wet contact for best results. Assure full coverage by periodically removing and inspecting the back of tile. Tile or veneer that has been set for more that 10-15 minutes cannot be readjusted. Never apply mortar over any expansion or control joints. For more information see TCNA (Tile Council of North America) Handbook and EJ171.

Grouting: Cure the freshly applied material for at least 24 hours before installing grout. Curing time may vary due to surface and ambient temperatures.